Student Management System

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import os

FILE_NAME = "students.txt"

def add_student():
    roll = input("Enter Roll Number: ")
    name = input("Enter Student Name: ")
    marks = input("Enter Marks: ")

    with open(FILE_NAME, "a") as file:
        file.write(f"{roll},{name},{marks}\n")

    print("Student Added Successfully!")

def view_students():
    if not os.path.exists(FILE_NAME):
        print("No records found!")
        return

    with open(FILE_NAME, "r") as file:
        data = file.readlines()

    if not data:
        print("No students available!")
        return

    print("\nRoll | Name | Marks")
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    print("----------------------")

    for line in data:
        roll, name, marks = line.strip().split(",")
        print(f"{roll} | {name} | {marks}")

def search_student():
    roll = input("Enter Roll Number to Search: ")

    with open(FILE_NAME, "r") as file:
        found = False
        for line in file:
            data = line.strip().split(",")
            if data[0] == roll:
                print("\nStudent Found:")
                print("Roll:", data[0])
                print("Name:", data[1])
                print("Marks:", data[2])
                found = True
                break

        if not found:
            print("Student Not Found!")

def update_student():
    roll = input("Enter Roll Number to Update: ")
    lines = []
    updated = False

    with open(FILE_NAME, "r") as file:
        lines = file.readlines()
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    with open(FILE_NAME, "w") as file:
        for line in lines:
            data = line.strip().split(",")
            if data[0] == roll:
                name = input("Enter New Name: ")
                marks = input("Enter New Marks: ")
                file.write(f"{roll},{name},{marks}\n")
                updated = True
            else:
                file.write(line)

    if updated:
        print("Student Updated Successfully!")
    else:
        print("Student Not Found!")

def delete_student():
    roll = input("Enter Roll Number to Delete: ")
    lines = []
    deleted = False

    with open(FILE_NAME, "r") as file:
        lines = file.readlines()

    with open(FILE_NAME, "w") as file:
        for line in lines:
            data = line.strip().split(",")
            if data[0] != roll:
                file.write(line)
            else:
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            deleted = True

    if deleted:
        print("Student Deleted Successfully!")
    else:
        print("Student Not Found!")

def main():
    while True:
        print("\n--- Student Management System ---")
        print("1. Add Student")
        print("2. View Students")
        print("3. Search Student")
        print("4. Update Student")
        print("5. Delete Student")
        print("6. Exit")

        choice = input("Enter your choice: ")

        if choice == "1":
            add_student()
        elif choice == "2":
            view_students()
        elif choice == "3":
            search_student()
        elif choice == "4":
            update_student()
        elif choice == "5":
            delete_student()
        elif choice == "6":
            print("Exiting Program...")
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            break
        else:
            print("Invalid Choice!")

if __name__ == "__main__":
    main()
```